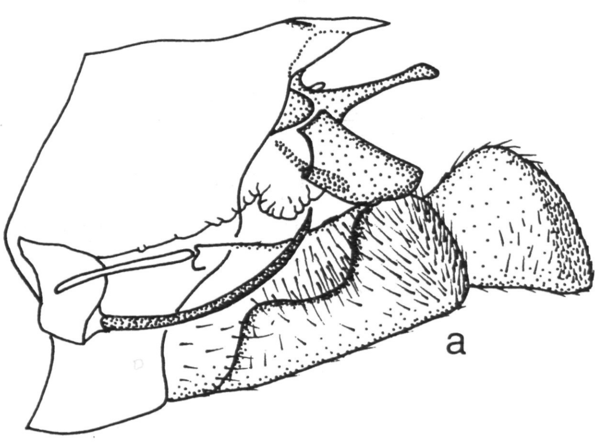
BRAUERIA (Lunz am See, Austria) 21:7 (1994)

A NEW SPECIES OF RHYACOPHILA FROM THE RUSSIAN FAR EAST (TRICHOPTERA; RHYACOPHILIDAE)

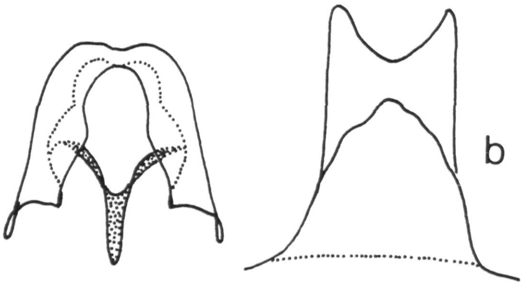
Tatyana I.**Arefina**

Rhyacophila silinka sp.n.

Length of the body up to the tips of the wings 9,7 mm, wingspread 19,5 mm. Body brown, legs and wings light brown. - Male genitalia (Fig. 1): Dorsal projection of segment 9 narrowed apically with rounded posterior margin. Segment 10 consists of dorsal and ventral parts. Dorsal part is developed into a horizontal plate that is longer than the projection of segment 9, and its apex is concave. Ventral part of segment 10 downturned with concavities on the inner side. Anal sclerites paired with clearly visible roots. Apical band lost, tergal strap unsclerotized. Phallic apparatus very simple. Phallotheca and endotheca small, aedeagus long, thin and upcurved. Parameres lost. First article of inferior appendages very similar to the same of R.kaltatika, it has a complex relief on inner side and bears a strong concavity which forms a prominent and sinuous ridge covered with thick setae. Second article without incision.


a

c


b

This new species is closely related to R.kaltatika Levanidova & Schmid 1977 from Eastern Sajan Mts., R.sutchanica Schmid & Levanidova 1986 from Southern Primorje and R.szeptyckii Malicky 1993 from Korea but differs in the form of the dorsal projection of segment 9 and by the form of the second article of the inferior appendages. All four species form an isolated and specialized group as indicated by the dorsal projection of the segment 9, the loss of the parameres and the complex inner relief of the first article of the inferior appendages. They are placed in the acropedes group.

Holotype ♂: Khabarovsk Region, Far Eastern Russia; upper part of Silinka River (Amur River Basin) near Komsomolsk-na-Amure Town, 21.7.1985, leg.Makarchenko. The adult was collected near a fast-running stream with low water temperatures in summer. The holotype in alcohol is deposited in the Institute of Biology and Pedology of the Russian Academy of Sciences, Vladivostok, Russia.

REFERENCES

Levanidova,I.M., Schmid,F., 1977, Three new Rhyacophila from Siberia and the Far-Eastern USSR. - Nat.Can. 104:501-505.

Malicky,H., 1993, Some caddisflies from Korea. - Braueria 20:4.

Schmid,F., Levanidova,I.M., 1986, Quelques Trichoptères de l'Extrême-Orient Soviétique. - Can.Ent. 118:1165-1172.

T.I.Arefina (formerly Lukyanchenko)
Laboratory of Freshwater Hydrobiology
Institute of Biology & Pedology
Far Eastern Branch of Russian Academy of Sciences
Vladivostok 690022
Russia

*



Günter Brückmann

*19. 12. 1960 † 12. 2. 1994

*

CHANGE OF ADDRESSES

David E.Bowles, PhD
Texas Parks & Wilflife Department
P.O.Box 1685
SAN MARCOS TX 78667

Luiz S.W.da Terra
R.Patrâo Lagoa 28
P - 4490 PÓVOA DE VARZIM
Portugal

Alice Wells
Australian Biological Resources Study
GPO Box 636
CANBERRA, ACT 2601
Australia